# Water Quality Standard Variance Building Tool – Flow Chart (Print Version)

<u>DISCLAIMER:</u> This tool does not impose legally binding requirements on EPA, states, territories, authorized tribes, or the regulated community, nor does it confer legal rights or impose legal obligations upon any member of the public. The CWA provisions and EPA regulations described in the tool contain legally binding requirements. This tool does not constitute a regulation, nor does it change or substitute for any CWA provision or EPA regulations. This tool is a living document and may be revised periodically without public notice.

This tool populates draft regulatory language that is intended for states, territories, and authorized tribes to use as a starting point to customize their own legally binding WQS provisions. It also provides a list of the required supporting documentation that must be submitted to EPA with the WQS variance provisions. The required supporting documentation listed may change depending on the type of WQS variance identified. The use of this tool and resulting draft regulatory language does not guarantee EPA approval. EPA encourages early and frequent coordination between a state, territory, or authorized tribe and EPA to provide the best chance that the submission meets the requirements of the CWA and regulation.

## What is the purpose of this tool?

The Water Quality Standard Variance Building Tool is an implementation support tool designed to help states, territories, and authorized tribes adopt water quality standard (WQS) variances that are consistent with the new regulatory requirements of 40 CFR Part 131.14. While states, territories, and authorized tribes are not required to use this tool when adopting WQS variances, the tool provides draft regulatory language intended as a starting point to engage in discussions with EPA and stakeholders before adopting the WQS variance into regulation.

#### How does this tool work?

This flow chart serves as the structural layout for EPA's online version of the Water Quality Standard Variance Building Tool. The online version follows the flow chart and asks a series of questions to identify the information that must be included in a WQS variance submission. As the user progresses, the tool records all of the answers provided and uses them to populate draft regulatory language. The tool does this by assigning each input parameter with a specific code (see the chart below for more information). States, territories, and authorized tribes have the discretion to tailor the draft regulatory language to include additional information to conform with their own regulations and desired format as long as all federal requirements are met. The final regulatory language and all necessary supporting documentation can then be submitted to EPA for CWA Section 303(c) review.

Codes for Specific Parameters	Description
"Q#"	Defines a question (with "#" representing a number from 1-38) that requires the user to input a value or select an option. The response to these questions is recorded by the tool and used to populate the regulatory language.
"R#"	Defines a result or conclusion (with "#" representing a number from 1-5) that provides suggested next steps or actions.
"C#"	Defines additional content (with "#" representing a number from 1-9) that does not require input by the user but is provided for context or supplemental information.

### **Contact Information**

If you have any questions about this tool, please contact Gary Russo at (202)-566-1335 or at Russo.Gary@epa.gov.

# **START**

**C1)** As you progress through the questions, this tool will record each of your responses. To view your responses to any previous question, click the "Show/Hide Responses" button. You may also click "Go Back" to return to the previous question. If you wish to clear all of your responses and start fresh, click "Start Over."

If you close your browser, this tool will save your progress so you can continue your work at a later time. Please note that responses are stored on your computer's browser and are not transmitted to EPA or anywhere else. Using the "Show/Hide Responses" button, you may also view your responses and then copy them into another document.

Go to Q1.

Q1) Which of the following has regulatory jurisdiction over the waterbody or waterbody segment that will be subject to the desired water quality standard (WQS) variance, a(n): state, authorized tribe<sup>1</sup>, or U.S. territory?

**NOTE:** The remainder of this tool uses "state" to refer to a state, the District of Columbia, the Commonwealth of Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands.

1. An authorized tribe is any federally recognized Indian tribe approved by EPA to receive Treatment in a Similar Manner as a State (TAS) to administer a Clean Water Act WQS program.

Select one:

State Authorized Tribe U.S. Territory

Go to Q2.

**Q2)** What is the currently applicable designated use for the waterbody or waterbody segment that will be subject to the desired WQS variance?

Please be as specific as possible when identifying the applicable designated use. Example: cold water aquatic life use.

Go to Q3.

Q3) The regulations at 40 CFR Part 131.14(b)(1)(i) require WQS variances to identify the pollutant or water quality parameter to which the desired WQS variance will apply. WQS variances are generally applicable to one pollutant or water quality parameter, however EPA acknowledges that some pollutants (e.g., nitrogen and phosphorus) may be appropriate to cover under the same WQS variance.

What is/are the pollutant(s) or water quality parameter(s) to which the desired WQS variance will apply?

Please be as specific as possible when identifying the pollutant(s) or parameter(s).

Example: dissolved copper

Go to Q4.

**Q4)** What is the currently applicable criterion for the pollutant(s) or water quality parameter(s) to which the desired WQS variance will apply?

Please be as specific as possible when identifying the applicable criterion.

Examples include but are not limited to: 1) a chronic freshwater aquatic life criterion of 18.0  $\mu$ g/L OR 2) pH and temperature dependent: given a pH of 7 and water temperature of 20 °C, a chronic freshwater aquatic life criterion of 1.9  $\mu$ g/L, etc.

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Go to Q5.

Q5) Can the currently applicable designated use and associated criterion addressed by the desired WQS variance be achieved by implementing technology-based effluent limits (TBELs) required under Sections 301(b) and 306 of the CWA? (See 40 CFR Part 131.14(a)(4))

Select one:



If "Yes", go to R1 (page 19).

If "No", go to Q6.

**Q6)** Is/Are the permittee(s) able to meet the water quality-based effluent limit (WQBEL) derived from the designated use and associated criterion at the time of the National Pollutant Discharge Elimination System (NPDES) permit issuance?

Select one:

Q7) Can the discharger/permitting authority identify a series of enforceable actions that will lead to compliance with the WQBEL?

Select one:



If "No", go to Q7.

If "Yes", go to R3 (page 19).

If "No", go to Q8.

**Q8)** WQS variances may be appropriate to address situations where it is known that the designated use and criterion are unattainable today (or for a limited period of time) but feasible progress could be made toward attaining the designated use and criterion in the future. Taking into account potential uncertainty, is it possible that feasible progress could be made toward attaining the designated use and criterion in the future?

Select one:

If "Yes", go to C2.

If "No", go to R4 (page 19).

**C2)** The state or authorized tribe should consider adopting a WQS variance to provide time to make incremental progress toward improving water quality. As the state or authorized tribe begins its process of drafting a WQS variance, use the following questions and guidelines to ensure the WQS variance is consistent with the requirements at 40 CFR Part 131.14.

Go to Q9.

Q9) Will the WQS variance apply to specific discharger(s) or will it apply to a waterbody or waterbody segment?

Select one:

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Specific Discharger(s) Waterbody or Waterbody Segment
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If "Specific Discharger(s)", go to Q10.

If "Waterbody or Waterbody Segment", go to Q28 (page 13).

Q10) Does the state or authorized tribe have more than one discharger unable to meet their WQBEL derived from the designated use and associated criterion for the pollutant(s) you identified?

Select one:



If "Yes", go to Q12.

If "No", go to Q11.

**Q11)** Identify the discharger that will be subject to the WQS variance. Be sure to include the name and associated NPDES permit number, if available, for the discharger, and the identity of the receiving water.

Example: Company Name ([enter associated NPDES permit number]) discharging to Waterbody Name

(See 40 CFR Part 131.14(b)(1)(i))

Go to Q18 (page 7).

Q12) States and authorized tribes have the discretion to adopt individual WQS variances for each discharger or they may streamline their WQS variance process by adopting WQS variances applicable to multiple dischargers, regardless of whether or not they are located on the same waterbody. Multiple discharger WQS variances may not be appropriate or practical for all situations and can be highly dependent on the applicable pollutants, parameters, and/or permittees.

Does the state or authorized tribe want to explore multiple discharger WQS variances?

Select one:

Yes	No
•	go to Q13 go to C3.

**C3)** EPA recommends that states and authorized tribes use this tool to develop each WQS variance specific to the individual dischargers. You may click "Continue" to begin drafting the WQS variance for one of the dischargers.

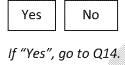
Go back to Q11.

Q13) States and authorized tribes considering a multiple discharger WQS variance must first determine if all of the dischargers are experiencing the same challenges (i.e., the same facts cause the same factor to preclude attainment) in meeting their WQBELs for the same pollutant. For example, dischargers that would incur substantial and widespread economic and social impact as a result of implementing controls for dissolved copper more stringent than those required by sections 301(b) and 306 of the CWA may be eligible for coverage under the same WQS variance.

**NOTE:** EPA recommends that the state or authorized tribe coordinate with its EPA regional office when considering a multiple discharger WQS variance.

Are all of the dischargers experiencing the same challenges in meeting their WQBELs for the pollutant(s) you identified?

#### Select one:



If "No", go to C4.

**C4)** If the state or authorized tribe can identify a subset of the dischargers experiencing the same challenges in meeting their WQBELs for the same pollutant, click "Use a Multiple Discharger Variance" to begin drafting the multiple discharger WQS variance for that subset of dischargers. If the state or authorized tribe can identify multiple subsets, EPA recommends using this tool to develop separate multiple discharger WQS variances for each subset.

For those dischargers that do not fall into a subset, click "Use an Individual Discharger Variance".

Select one:

Use a Multiple Discharger Variance Use an Individual Discharger Variance

If "Use a Multiple Discharger Variance", go to Q14.

If "Use an Individual Discharger Variance", go back to C3.

Q14) The regulations at 40 CFR Part 131.14(b)(1)(i) require the state or authorized tribe to identify all dischargers subject to a WQS variance. The state or authorized tribe can identify each discharger individually, or can adopt specific requirements $^1$  to identify the eligible dischargers the state or authorized tribe cannot identify in advance.

Can the state or authorized tribe identify in advance all dischargers that will be subject to the desired WQS variance?

1. Examples include but are not limited to: facility size, daily volume of outflows, discharging to a lake of a certain size, etc.

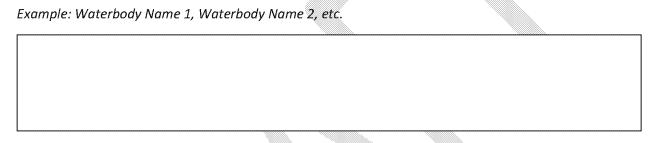
Select or	ne:					
Yes	No					
If "Yes",	go to Q15.					
If "No", g	go to Q16.					
	e dischargers that will l umber, if available, for			.00.		ated
-	r: Company Name 1 ([e y Name 2 ([enter assoc		-		· ·	e 1,
	 CFR Part 131.14(b)(1)(i 18 (page 7).	))				
s and assoc	dischargers the state or ciated NPDES permit not company Name 1 ([e	umbers, if available,	and identity of the r	eceiving water	rs for each discha	ırger
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Enter the name of the document or Web page that will list all of the facilities covered by the WQS variance. If appli	cable,
you should also include the Web address for your state or authorized tribal Web site.	

Example: "WQS	Variance Register"	located at http://v	vww.state_regs.g	ov	
Go to 017.					

Q17) The regulation at 40 CFR Part 131.14(b)(1)(i) also requires WQS variances to include the identity of the waterbody or waterbody segment(s) that will be subject to the WQS variance. For those dischargers that the state or authorized tribe identifies using eligibility requirements, identify all of the associated waterbodies or waterbody segments potentially affected by the WQS variance.

You may include the names of each waterbody or waterbody segment, or a category of waterbodies (e.g., "all lakes of X size," "all waters designated for X use," etc.).



Go to Q18.

Q18) The regulations at 40 CFR Part 131.14(b)(2)(i) require the state or authorized tribe to submit supporting documentation demonstrating the need for a WQS variance. The type of demonstration required depends on whether the designated use is a 101(a)(2) use<sup>1</sup> or a non-101(a)(2) use<sup>2</sup>.

Which type of designated use is affected by this WQS variance?

- 1. 101(a)(2) uses are any uses specified in Section 101(a)(2) of the CWA, or subcategory of such a use. Examples include but are not limited to: cold-water aquatic life use and primary contact recreation use.
- 2. Non-101(a)(2) uses are any uses unrelated to the protection and propagation of fish, shellfish, and wildlife or recreation in or on the water. Examples include but are not limited to: navigational, agricultural, industrial, or public water supply uses.

Select one:

101(a)(2) Non-101(a)(2)

If "101(a)(2)", go to Q19.

If "Non-101(a)(2)", go to Q20.

Q19) A WQS variance for a use specified in section 101(a)(2) of the Act, or sub-category of such a use, requires a demonstration that attaining the designated use is not feasible during the term of the WQS variance due to at least one of the factors specified in 40 CFR Part 131.14(b)(2)(i)(A). Select the relevant factor(s) listed below. Document how the selected factor(s) precludes attainment of the use during the term of the WQS variance and include such documentation in the supporting documentation submitted to EPA with the WQS variance.

Se	elect the facto	or(s) that apply:
	1)	Naturally occurring pollutant concentrations prevent the attainment of the use; or
	2)	Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met; or
	3)	Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or
	4)	Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in the attainment of the use; or
	5)	Physical conditions related to the natural features of the waterbody, such as a lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to the water quality, preclude attainment of aquatic life protection uses; or
	6)	Controls more stringent than those required by sections 301(b) and 306 of the Clean Water Act would result in substantial and widespread economic and social impact; or
	7)	Actions necessary to facilitate lake, wetland, or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.
G	o to Q22 (pag	ne 9).

Q20) Before adopting a WQS variance for a non-101(a)(2) use, federal regulations require a demonstration that consideration of the use and value of the water for those uses listed in 40 CFR Part 131.10(a) appropriately supports the WQS variance and its term as specified in 40 CFR Part 131.14(b)(2)(i)(B). This requirement can also be satisfied by providing a demonstration showing that attaining the designated use and associated criterion is not feasible due to at least one of the regulatory factors specified in 40 CFR Part 131.14(b)(2)(i)(A).

Which type of demonstration will the state or authorized tribe provide for this WQS variance?

Select one:

Consideration of the use and value of the water

Attainability of the designated use

If "Consideration of the use and value of the water", go to C5.

If "Attainability of the designated use", go to Q21.

C5) The state or authorized tribe will need to document how the consideration of the use and value of the water for the non-101(a)(2) uses affected by this WQS variance appropriately supports the WQS variance and term (see 40 CFR Part 131.14(b)(2)(i)(B)). The state or authorized tribe must include this documentation with the WQS variance they submit to EPA for review and approval or disapproval.

Go to Q22 (page 9).

Q21) The state or authorized tribe will need to demonstrate that the designated use and associated criterion are not feasible to attain throughout the term of the WQS variance using at least one of the factors specified in 40 CFR Part 131.14(b)(2)(i)(A). Select the relevant factor(s) listed below. Describe in separate documentation how the selected factor(s) precludes attainment of the designated use and associated criterion during the term of the WQS variance. The state or authorized tribe must include this documentation with the WQS variance they submit to EPA for review and approval or disapproval.

S	elect th	ne facto	r(s) that apply:
		1)	Naturally occurring pollutant concentrations prevent the attainment of the use; or
		2)	Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met; or
		3)	Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or
		4)	Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in the attainment of the use; or
		5)	Physical conditions related to the natural features of the waterbody, such as a lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to the water quality, preclude attainment of aquatic life protection uses; or
		6)	Controls more stringent than those required by sections 301(b) and 306 of the Clean Water Act would result in substantial and widespread economic and social impact; or
		7)	Actions necessary to facilitate lake, wetland, or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.
G	50 to Q.	22.	
These int quantifial pollutant reduction	erim re ble (see concei n, such	equiremed 40 CFR ntration as the n	must include the interim requirements that apply throughout the term of the WQS variance. ents represent the highest attainable condition (HAC) and must be specified in terms that are R Part 131.14(b)(1)(ii)(A)). Examples of a quantifiable expression include one or more numeric in ambient water, numeric effluent conditions, or other quantitative expressions of pollutant maximum number of combined sewer overflows achievable after implementation of a long-term at reduction in pollutant loads.
=			lowing quantifiable expressions the state or authorized tribe will use to specify the highest this WQS variance (select one):
(	C	1) The h	nighest attainable interim criterion; or
			Example: a weekly average ambient concentration of 20.0 μg/L for dissolved copper.
(	C	2) The i	nterim effluent condition that reflects the greatest pollutant reduction achievable; or
			Example: a weekly average discharge concentration of 24.0 μg/L for dissolved copper.

	If no additional feasible pollutant control technology can be identified such that #1 and #2 are not possible, you may consider exploring HAC expression #3 as follows:
0	3) The interim criterion or interim effluent condition that reflects the greatest pollutant reduction achievable with optimization (i.e., well operated and maintained) of the pollutant control technologies installed at the time the state or authorized tribe adopts the WQS variance, and the adoption and implementation of a Pollutant Minimization Program (PMP) <sup>1</sup> .
	Example: a weekly average dissolved copper discharge concentration of 24.0 μg/L using current pollutant control technologies installed and implementation of the Pollutant Minimization Program described at Surface Water Quality Standards §100.123.456.
	linimization Program, in the context of 40 CFR §131.14, is a structured set of activities to improve processes and left that will prevent and reduce pollutant loadings.
If HAC	Expression #1, go to Q23-1. Expression #2, go to Q23-2. Expression #3, go to Q23-3.
attainable inte	ve indicated that the state or authorized tribe will express the HAC for this WQS variance as the highest rim criterion.  antifiable HAC expression you have selected.
Examp	ole: a weekly average ambient concentration of 20.0 μg/L for dissolved copper
Go to	Q24 (page 11).
	ve indicated that the state or authorized tribe will express the HAC for this WQS variance as the interim tion that reflects the greatest pollutant reduction achievable.
Specify the qu	antifiable HAC expression you have selected.
<i>Ехатр</i> 	ole: a weekly average discharge concentration of 24.0 μg/L for dissolved copper
Go to	Q24 (page 11).
	ve indicated that the state or authorized tribe will express the HAC for this WQS variance as the interim erim effluent condition that reflects the greatest pollutant reduction achievable with optimization (i.e.,

well operated and maintained) of the pollutant control technologies installed at the time the state or authorized tribe

adopts the WQS variance, and the adoption and implementation of a Pollutant Minimization Program (PMP)¹.

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Specify the greatest pollutant reduction achievable with optimization (i.e., well operated and maintained) of the pollutant control technologies installed at the time the state or authorized tribe adopts the WQS variance. Be sure to also include the location in your state or authorized tribal WQS regulations where the legally binding PMP for this WQS variance is located.

	A familia NVOS anarianas
cribe the legally binding PMP	
	equiring that the discharger meet the permit limits for copper, the permit requires able progress toward achieving the underlying copper WQS by implementing a PMF
· · · · · · · · · · · · · · · · · · ·	urces of copper. The facility plans to do the following actions during the next permi
	sampling, including methodically conducting testing starting at Outfall 005 and wo
backward, 2) develop cop	pper reduction alternatives, including considering alternative raw materials, contin
*	on practices, and alternative processes (e.g. boiler makeup and wastewater recycli
	ss implementation of conner reduction alternatives
	ss implementation of copper reduction alternatives.
	ss implementation of copper reduction alternatives.

**NOTE:** This PMP is subject to EPA review and approval/disapproval.

1. A Pollutant Minimization Program, in the context of 40 CFR §131.14, is a structured set of activities to improve processes and pollutant controls that will prevent and reduce pollutant loadings.

Go to Q25.

**Q24)** It is possible the discharger may need time to come into compliance with the WQBEL based on the highest attainable condition. A mechanism to provide that time could include a permit compliance schedule. As with any permit compliance schedule, the use of a compliance schedule must first be authorized by the state, consistent with 40 CFR Part 131.15 before a compliance schedule is granted. Any subsequent compliance schedule included by the permitting authority in an NPDES permit must be consistent with 40 CFR Part 122.47.

If you do not have a CWA-effective permit compliance schedule authorizing provision that can be used to provide time to meet a WQBEL based on the highest attainable condition for the WQS variance, please choose to add such compliance schedule language to this WQS variance.

Compliance Schedule Language: "Where necessary, the [state, authorized tribe] authorizes the use of permit compliance schedules to provide time to meet any WQBEL derived from the highest attainable condition for this WQS variance, as soon as possible, consistent with 40 CFR Part 122.47."

Go to Q25.

Q25) A WQS variance must specify a term (the length of time that is only as long as necessary to achieve the HAC). The state or authorized tribe must justify the term of the WQS variance by including in the supporting documentation a description of the pollutant control activities that will be implemented during the WQS variance to achieve the HAC. These activities must reflect only the time needed to plan, implement, or evaluate the outcome of those activities. The term may be expressed as either the date of expiration or an interval of time from EPA approval. (See 40 CFR Part 131.14(b)(1)(iv))

**NOTE:** See the regulations at 40 CFR Part 132 Appendix F, Procedure (2)(B) for more information on specific requirements for terms of WQS variances applicable to waters in or discharging to the Great Lakes System.

What is the term of the WQS variance?

Examples	s: "on March 1, 2025" (	DR "5 years from	EPA approval".		
Go to Q2	6.				****
<b>(126)</b> Does the W	QS variance term exce	ed 5 years?			
Select on	e:				
Yes	No				
If "Yes", g	go to Q27.				
If "No", g	o to C6 (page 13).				
<b>227)</b> Federal reg	ulations require a WQS	variance with a	term greater tha	n five years to i	nclude:

C

A specified frequency to reevaluate the highest attainable condition using all existing and readily available information. The reevaluation frequency must be at least once every 5 years from the date of EPA approval (see 40 CFR Part 131.14(b)(1)(v)).

Specify the frequency of reevaluation for this WQS variance.

Examples can include but are not limited to: 1) every 5 years from EPA approval OR 2) 1 year prior to the NPDES permit expiration OR 3) at each WQS triennial review throughout the duration of the WQS variance

A legally binding provision specifying how the state or authorized tribe intends to obtain public input on each reevaluation (see 40 CFR Part 131.14(b)(1)(v)).

Specify how public input will be obtained for reevaluations of this WQS variance.

	draft NPDES permit, etc.
•	A legally binding provision specifying that the HAC will either be the HAC at the time of adoption or a higher attainable condition identified during any subsequent reevaluation, whichever is more stringent (see 40 CFR Part 131.14(b)(1)(iii)). (This provision is automatically built into the template).
•	A legally binding provision that if the state or authorized tribe does not complete a reevaluation on the schedule specified in the WQS variance and/or does not submit the results to EPA within 30 days of completion, the variance is no longer the applicable water quality standard for CWA purposes until they complete and/or submit the reevaluation (see 40 CFR Part 131.14(b)(1)(vi)). ( <i>This provision is automatically built into the template</i> ).
	Go to C6.
publi requ	n order to adopt a WQS variance, the state or authorized tribe must hold one or more public hearings to meet the c participation requirements at 40 CFR Part 131.20(b). EPA's regulations at 40 CFR Part 25.5 specify the rements for conducting such hearings, including providing a well-publicized notice at least 45 days prior to the date hearing and supporting analyses/documentation to the public at least 30 days prior to the date of the hearing.
	ughout and following the public participation process, the state or authorized tribe should consider any public input ved and make any necessary revisions to the WQS variance and/or supporting documentation.
	Go to C7.
varia	PA recommends that the state or authorized tribe coordinate with its EPA regional office before adopting the WQS nce into state or authorized tribal regulations. Early and frequent communication with EPA will help ensure that the variance submission will be consistent with federal regulations and CWA requirements.
	Go to R5 (page 20).
	Identify the waterbody or waterbody segment to which the WQS variance will apply. Include identifying mation such as the name and location of the waterbody or waterbody segment.
infor	

Q29) The regulations at 40 CFR Part 131.14(b)(2)(i) require the state or authorized tribe to submit supporting documentation demonstrating the need for a WQS variance. The type of demonstration required depends on whether the designated use is a 101(a)(2) use<sup>1</sup>or a non-101(a)(2) use<sup>2</sup>.

Which type of designated use is affected by this WQS variance?

Go to Q29.

1. 101(a)(2) uses are any uses specified in Section 101(a)(2) of the CWA, or subcategory of such a use. Examples include but are not limited to: cold-water aquatic life use and primary contact recreation use.

2. Non-101(a)(2) uses are any uses unrelated to the protection and propagation of fish, shellfish, and wildlife or recreation in or on the water. Examples include but are not limited to: navigational, agricultural, industrial, or public water supply uses.

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<b>►</b> △	DOT.	one:	
	CLL	UIIC.	

101(a)(2)	Non-101(a)(2)	

If "101(a)(2)", go to Q30.

If "Non-101(a)(2)", go to Q31.

Q30) A WQS variance for a use specified in section 101(a)(2) of the Act, or sub-category of such a use, requires a demonstration that attaining the designated use is not feasible during the term of the WQS variance due to at least one of the factors specified in 40 CFR Part 131.14(b)(2)(i)(A). Select the relevant factor(s) listed below. Document how the selected factor(s) precludes attainment of the use during the term of the WQS variance and include such documentation in the supporting documentation submitted to EPA with the WQS variance.

Select the factor(s) that apply:

1)	Naturally occurring pollutant concentrations prevent the attainment of the use; or
2)	Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met; or
3)	Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or
4)	Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in the attainment of the use; or
5)	Physical conditions related to the natural features of the waterbody, such as a lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to the water quality, preclude attainment of aquatic life protection uses; or
6)	Controls more stringent than those required by sections 301(b) and 306 of the Clean Water Act would result in substantial and widespread economic and social impact; or
7)	Actions necessary to facilitate lake, wetland, or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.

Go to Q33 (page 15).

Q31) Before adopting a WQS variance for a non-101(a)(2) use, federal regulations require a demonstration that consideration of the use and value of the water for those uses listed in 40 CFR Part 131.10(a) appropriately supports the WQS variance and its term as specified in 40 CFR Part 131.14(b)(2)(i)(B). This requirement can also be satisfied by providing a demonstration showing that attaining the designated use and associated criterion is not feasible due to at least one of the regulatory factors specified in 40 CFR Part 131.14(b)(2)(i)(A).

Which type of demonstration will the state or authorized tribe provide for this WQS variance?

Select one:	
Consideration of the use and value of the water	Attainability of the designated use
If "Consideration of the use and value of the water",	go to C8.

If "Attainability of the designated use", go to Q32.

**C8)** The state or authorized tribe will need to document how the consideration of the use and value of the water for the non-101(a)(2) uses affected by this WQS variance appropriately supports the WQS variance and term (see 40 CFR Part 131.14(b)(2)(i)(B)). The state or authorized tribe must include this documentation with the WQS variance they submit to EPA for review and approval or disapproval.

Go to Q33.

Q32) The state or authorized tribe will need to demonstrate that the designated use and associated criterion are not feasible to attain throughout the term of the WQS variance using at least one of the factors specified in 40 CFR Part 131.14(b)(2)(i)(A). Select the relevant factor(s) listed below. Describe in separate documentation how the selected factor(s) precludes attainment of the designated use and associated criterion during the term of the WQS variance. The state or authorized tribe must include this documentation with the WQS variance they submit to EPA for review and approval or disapproval.

Select t	he facto	or(s) that apply:
	1)	Naturally occurring pollutant concentrations prevent the attainment of the use; or
	2)	Natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met; or
	3)	Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place; or
	4)	Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the waterbody to its original condition or to operate such modification in a way that would result in the attainment of the use; or
	5)	Physical conditions related to the natural features of the waterbody, such as a lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to the water quality, preclude attainment of aquatic life protection uses; or
	6)	Controls more stringent than those required by sections 301(b) and 306 of the Clean Water Act would result in substantial and widespread economic and social impact; or
	7)	Actions necessary to facilitate lake, wetland, or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.
Go to C	233.	

Q33) The WQS variance must include the interim requirements that apply throughout the term of the WQS variance. These interim requirements represent the highest attainable condition (HAC) and must be specified in terms that are

quantifiable (see 40 CFR Part 131.14(b)(1)(ii)(B)). Examples of a quantifiable expression include one or more numeric pollutant concentrations in ambient water, or other quantitative expressions of pollutant reduction, such as the maximum number of combined sewer overflows achievable after implementation of a long-term control plan or a percent reduction in pollutant loads.

Identify which of the following quantifiable expressions the state or authorized tribe will use to specify the highest attainable condition for this WQS variance (select one):

1) The highest attainable interim use and interim criterion; or

Example: a cold, freshwater habitat use with a weekly average ambient concentration of 20.0  $\mu$ g/L for dissolved copper.

If no additional feasible pollutant control technology can be identified such that #1 is not possible, you may consider exploring HAC expression #2 as follows:

2) The interim use and interim criterion that reflects the greatest pollutant reduction achievable with optimization (i.e., well operated and maintained) of the pollutant control technologies installed at the time the state or authorized tribe adopts the WQS variance, and the adoption and implementation of a Pollutant Minimization Program (PMP)<sup>1</sup>.

Example: a cold, freshwater habitat use with a weekly average dissolved copper discharge concentration of 24.0 µg/L using current pollutant control technologies installed and implementation of the Pollutant Minimization Program described at Surface Water Quality Standards §100.123.456.

1. A Pollutant Minimization Program, in the context of 40 CFR §131.14, is a structured set of activities to improve processes and pollutant controls that will prevent and reduce pollutant loadings.

If HAC Expression #1, go to Q34-1.

If HAC Expression #2, go to Q34-2.

**Q34-1)** You have indicated that the state or authorized tribe will express the HAC for this WQS variance as the highest attainable interim use and interim criterion.

Specify the quantifiable HAC expression you have selected.

Example: a cold, freshwater habitat use with a weekly average ambient concentration of 20.0  $\mu$ g/L for dissolved copper

Go to Q35 (page 17).

Q34-2) You have indicated that the state or authorized tribe will express the HAC for this WQS variance as the interim use and interim criterion that reflects the greatest pollutant reduction achievable with optimization (i.e., well operated and maintained) of the pollutant control technologies installed at the time the state or authorized tribe adopts the WQS variance, and the adoption and implementation of a Pollutant Minimization Program (PMP)<sup>1</sup>.

Specify the interim use and the greatest pollutant reduction achievable with optimization (i.e., well operated and maintained) of the pollutant control technologies installed at the time the state or authorized tribe adopts the WQS variance. Be sure to also include the location in your state or authorized tribal WQS regulations where the legally binding PMP for this WQS variance is located.

				<u></u>	
scribe the le	ally binding PMP for this	WQS variance.			
· -	e: In addition to requiring	- 1%			
=	ity make reasonable prog				=
	and eliminate sources of conduct copper sampling			70000	
	rd, 2) develop copper redu				
improv	ements in operation practi				ewater recycling
	nonitor and assess implen	nentation of copper	reduction alternativ	?\$.	
		<u> </u>			

**NOTE:** This PMP is subject to EPA review and approval/disapproval.

1. A Pollutant Minimization Program, in the context of 40 CFR §131.14, is a structured set of activities to improve processes and pollutant controls that will prevent and reduce pollutant loadings.

Go to Q36.

Q35) It is possible the discharger may need time to come into compliance with the WQBEL based on the highest attainable condition. A mechanism to provide that time could include a permit compliance schedule. As with any permit compliance schedule, the use of a compliance schedule must first be authorized by the state, consistent with 40 CFR Part 131.15 before a compliance schedule is granted. Any subsequent compliance schedule included by the permitting authority in an NPDES permit must be consistent with 40 CFR Part 122.47.

If you do not have a CWA-effective permit compliance schedule authorizing provision that can be used to provide time to meet a WQBEL based on the highest attainable condition for the WQS variance, please choose to add such compliance schedule language to this WQS variance.

**Compliance Schedule Language:** "Where necessary, the [state, authorized tribe] authorizes the use of permit compliance schedules to provide time to meet any WQBEL derived from the highest attainable condition for this WQS variance, as soon as possible, consistent with 40 CFR Part 122.47."

Go to Q36.

Q36) A WQS variance must specify a term (the length of time that is only as long as necessary to achieve the HAC). The state or authorized tribe must justify the term of the WQS variance by including in the supporting documentation a description of the pollutant control activities that will be implemented during the WQS variance to achieve the HAC. These activities must reflect only the time needed to plan, implement, or evaluate the outcome of those activities. The term may be expressed as either the date of expiration or an interval of time from EPA approval. (See 40 CFR Part 131.14(b)(1)(iv))

**NOTE:** See the regulations at 40 CFR Part 132 Appendix F, Procedure (2)(B) for more information on specific requirements for terms of WQS variances applicable to waters in or discharging to the Great Lakes System.

What is the term of the WQS variance?

Examples: "on March 1, 202	25" OR "5 years from EP.	A approval".	
Go to Q37.			***
Does the WQS variance term 6	exceed 5 years?		
Select one:			
Yes No			
If "Yes", go to Q38.			
If "No", go to C9 (page 19).			

Q38) Federal regulations require a WQS variance with a term greater than five years to include:

• A specified frequency to reevaluate the highest attainable condition using all existing and readily available information. The reevaluation frequency must be at least once every 5 years from the date of EPA approval (see 40 CFR Part 131.14(b)(1)(v)).

Specify the frequency of reevaluation for this WQS variance.

Examples can include but are not limited to: 1) every 5 years from EPA approval OR 2) 1 year prior to the NPDES permit expiration OR 3) at each WQS triennial review throughout the duration of the WQS variance

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• A legally binding provision specifying how the state or authorized tribe intends to obtain public input on each reevaluation (see 40 CFR Part 131.14(b)(1)(v)).

Specify how public input will be obtained for reevaluations of this WQS variance.

Examples can include but are not limited to: holding public meetings, opening public comment periods on	
elevant supporting documents for the WQS variance, obtaining public comment through the publ	lic process on
draft NPDES permit, etc.	

- A legally binding provision specifying that the HAC will either be the HAC at the time of adoption or a higher attainable condition identified during any subsequent reevaluation, whichever is more stringent (see 40 CFR Part 131.14(b)(1)(iii)). (This provision is automatically built into the template).
- A legally binding provision that if the state or authorized tribe does not complete a reevaluation on the schedule specified in the WQS variance and/or does not submit the results to EPA within 30 days of completion, the variance is no longer the applicable water quality standard for CWA purposes until they complete and/or submit the reevaluation (see 40 CFR Part 131.14(b)(1)(vi)). (This provision is automatically built into the template).

Go to C9.

- **C9)** The regulations at 40 CFR Part 131.14(b)(2)(iii) specify two additional requirements for WQS variances applicable to a waterbody or waterbody segment including:
  - Identification and documentation of any cost-effective and reasonable best management practices for nonpoint source controls related to the pollutant(s) or water quality parameter(s) and waterbody or waterbody segment(s) specified in the WQS variance that could be implemented to make progress towards attaining the underlying designated use and criterion. The state or authorized tribe must also provide public notice and comment for any such document.
  - Any subsequent WQS variance for a waterbody or waterbody segment must include documentation of whether
    and to what extent best management practices for nonpoint source controls were implemented to address the
    pollutant(s) or water quality parameter(s) subject to the WQS variance and the water quality progress achieved.

The state or authorized tribe should prepare such documentation and submit it along with the WQS variance and all other required supporting documentation to EPA for CWA 303(c) review.

Go to C6 (page 13).

- **R1)** The regulation at 40 CFR Part 131.14(a)(4) prohibits a permittee from receiving a WQS variance when the designated use and associated criterion can be achieved by implementing technology-based effluent limits required under Sections 301(b) and 306 of the CWA. The permitee must comply with any applicable TBEL's.
- **R2)** The permitee must comply with the applicable WQBEL derived from the designated use and associated criterion. A WQS variance is not appropriate.
- R3) Permit compliance schedules are a more appropriate tool for situations where an enforceable sequence of actions that will lead to compliance with the WQBEL can be identified. The state or authorized tribe should consider using a permit compliance schedule consistent with 40 CFR Part 122.47, and adopting a permit compliance schedule authorizing provision consistent with 40 CFR Part 131.15, if none exists, to provide dischargers time to comply with WQBEL's.
- **R4)** The state or authorized tribe should consider revising the designated use and associated criterion consistent with the regulations at 40 CFR Part 131.10 and 40 CFR Part 131.11.

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**R5)** Use the information provided in this tool, as well as the draft regulatory language located below, to adopt and then submit the final WQS variance and supporting documentation to EPA for CWA 303(c) review. **Be sure to copy and paste the draft regulatory language into a separate document before clicking "start over"**. Please also refer to the "Checklist for Water Quality Standard Variance Supporting Documentation Requirements" on the "Resources" tab to see what supporting documentation is required for this WQS variance.

If EPA approves the WQS variance, the WQS variance will become the applicable water quality standard when developing NPDES permit limits and requirements for the discharger(s) and the pollutant(s)/parameter(s) specified in the WQS variance. The approved WQS variance can also be used when issuing CWA Section 401 certifications. All other WQS not addressed by the WQS variance continue to apply. The state or authorized tribe must retain the underlying designated use and associated criterion in their WQS. The underlying designated use and criteria will continue to apply for all other CWA purposes (e.g., total maximum daily loads and 303(d) listings).

If EPA disapproves the WQS variance, consult with your EPA regional office and consider any remedies EPA may provide. If the state or authorized tribe chooses to resubmit a revised WQS variance, the state or authorized tribe should coordinate with EPA as needed and resubmit the revised WQS variance for CWA 303(c) review.